

PATENT ABSTRACTS OF JAPAN

(11)Publication number : **56-018634**

(43)Date of publication of application : **21.02.1981**

(51)Int.Cl.

C08L 23/00

C08K 3/22

C08K 5/49

(21)Application number : **54-094211**

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(22)Date of filing : **26.07.1979**

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(54) FLAME-RETARDING RESIN COMPOSITION HIGHLY FILLED WITH INORGANIC SUBSTANCE

(57)Abstract:

PURPOSE: Titled composition which has excellent mechanical properties and flame retardancy and does not evolve corrosive gases when burned, prepared by adding to a PE type resin, hydrated metal oxide powder and organic phosphate compound powder.

CONSTITUTION: To 100pts.wt. of (A) a PE type resin comprising 10W75wt% of PE, density 0.910W0.945g/cm³, MI 0.01W2.0g/10min, and 90W25wt% of an ethylene/vinyl acetate copolymer having a vinyl acetate content of 10W75wt% or an ethylene/ethyl acrylate copolymer having an ethyl acrylate content of 5W30wt%, are added 80W250pts.wt. of (B) a hydrated metal oxide, average particle diameter 0.01W30μ, such as Ca(OH)₂ or hydrotalcite and 1W30pts.wt. of (C) an organic phosphate compound such as melamine phosphate or guanidine phosphate.

USE: Coating material for wires, cables and metal conduit tubes.